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NPIC DATA SYSTEM DATA AND CONTROL SEGMENT ACQUISITION PHASE

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31 March 1982

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APPENDIX C4

OBS DICTIONARY

The OBS Dictionary is directly related to the D/C Segment project organization structure. The project manager has all technical functions, subcontractor management and the project control office reporting directly to him. Three other staff functions have project responsibilities and have committed their support and services, these are Contracts, Security and Product Assurance. Figure 1 shows the hierarchical relationship between elements of the D/C Segment project organization. The dictionary relates the project efforts as defined by the work breakdown structure and the statement of work to the organization. These efforts are described in terms such as design, provide, prepare, monitor, develop, test, etc. The dictionary uses the hierarchical reference number and organization function as the key item identifier. The tasks associated with these functions are then listed with their work breakdown structure number and/or statement of work number as appropriate.

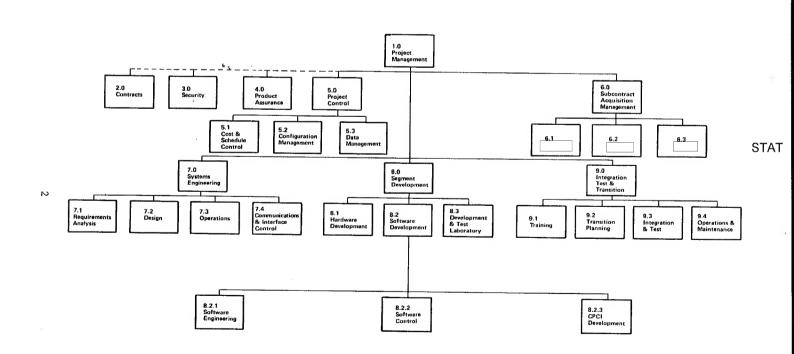


Figure 1. D/C Segment Project Hierarchical Structure

OBS DICTIONARY

OBS REF	ORGANIZATIONAL ELEMENT	WBS #	SOW #	ASOCIATED TASK
1.0	PROJECT MANAGEMENT	241000	4.1.1	o PROVIDE PROJECT ORGANIZATION AND MANAGEMENT
2.0	CONTRACTS			o CONTRACTURAL ADMINISTRATION AND SUPPORT
3.0	SECURITY	341500 541500	4.1.5	o PREPARE SECURITY PLAN AND PROCEDURES o IMPLEMENT SECURITY PROCEDURES
4.0	PRODUCT ASSURANCE	341300 541300	4.1.3	 PROVIDE QUALITY ASSURANCE PLAN IMPLEMENT SOFTWARE QUALITY ASSURANCE IMPLEMENT HARDWARE QUALITY ASSURANCE MONITOR SUBCONTRACTOR QUALITY ASSURANCE PROVIDE QUALITY ASSURANCE AUDIT
5.0 5.1	PROJECT CONTROL COST & SCHEDULE CONTROL	341200 541200	4.1.2	REPORTS O MONITOR, CONTROL AND REPORT SCHEDULE STATUS O MONITOR, CONTROL AND REPORT COST
5.2	CONFIGURATION MANAGEMENT	341400 541400	4.1.4	O PREPARE AND MAINTAIN CM PLAN AND PROCEDURES O PREPARE ENGINEERING CHANGE NOTICES/REQUESTS AND OTHER CM RELATED DOCUMENTS O PERFORM CM AUDITS O PROVIDE MASTER PRODUCT & DOCUMENT CONTROL O PREPARE/MAINTAIN SOFTWARE VERSION DESCRIPTION DOCUMENT O ADMINISTER CONTRACTOR CCB O PROVIDE CHANGE STATUS ACCOUNTING

OBS REF	ORGANIZATIONAL ELEMENT	WBS #	SOW #	ASOCIATED TASK
5.3	ADMINISTRATIVE DATA MANAGEMENT	341800 541800	4.1.8	 PROVIDE PUBLICATION, MAINTENANCE AND CONTROL OF ALL PROJECT DOCUMENTATION PREPARE AND ADMINISTER DOCUMENT MANAGEMENT PLAN
6.0	SUBCONTRACT ACQUISITION MANAGEMENT	341700	4.1.7	
6.1		541700		o PROVIDE MANAGEMENT, CONTROL AND STAT
6.2				VISIBILITY TO COST SCHEDULE OF STAT • PROVIDE MANAGEMENT, CONTROL AND
6.3				VISIBILITY TO COST SCHEDULE OF PROVIDE MANAGEMENT, CONTROL AND VISIBILITY TO COST SCHEDULE OF
7.0	SYSTEMS ENGINEERING	342000 342100 542100 442800	4.2.1	o SYSTEMS ENGINEERING MANAGEMENT o PROVIDE TECHNICAL MANAGEMENT OF PROJECT o PROVIDE/ENFORCE S/W, OPERATIONS, H/W INTERFACE STANDARDS o PREPARE SEGMENT DEVELOPMENT PLAN
		442000	4.2.0	 PROVIDE SEGMENT TECHNICAL REVIEWS AND ACTION ITEM FOLLOW-UP (PDR, CDR, SRR, ETC.)
7.1	REQUIREMENTS ANALYSIS	342200 542200 542201 542202 542203	4.2.2	o PROVIDE REQUIREMENTS ANALYSIS AND TRACEABILITY o PROVIDE PERFORMANCE ANALYSIS o PROVIDE RMA ANALYSIS o PREPARE SEGMENT DESIGN ANALYSIS REPORT o ACCOMPLISH TRADE STUDIES
		542205 542206		 PROVIDE ENGINEERING SPECIALTIES PROVIDE SUPPORT TO INTERSEGMENT INTERFACE DEFINITION AND REQUIRE- MENTS DETERMINATION
		542207 542700	4.2.7	o PREPARE ENGINEERING TECHNICAL NOTES o EVALUATE PROPOSED CHANGES o PROVIDE CHANGE REQUEST IMPACT ANALYSIS o PROVIDE INTERFACE CONTROL

OBS REF	ORGANIZATIONAL ELEMENT	WBS #	SOW #	ASOCIATED TASK
7.2	DESIGN	342400 542400 542401 542402	4.2.4	o PREPARE SEGMENT DESIGN SPECIFICATION o PROVIDE DATA BASE SPECIFICATIONS o PROVIDE ENGINEERING SPECIALTIES
7.3	OPERATIONS ENGINEERING & DEVELOPMENT	542403 342300	4.2.3	DESIGN O PROVIDE ILS DESIGN
		542300		o DEVELOP SEGMENT OPERATIONS CON-
		542301		CEPTS, PROCEDURES AND SPECIFICATIONS
		542301		DEVELOP USER MANUALSDEVELOPMENT SEGMENT/SYSTEMS
		J-2302		OPERATIONS MANUALS
		542303		 CONDUCT PRODUCTIVITY ENHANCEMENT STUDIES
		542304		o PREPARE O&M PLAN
		542305		o PREPARE MAINTENANCE AND LOGISTICS PLAN
		342600	4.2.6	o TEST SUPPORT
		542600		o PREPARE SEGMENT
		F/0/01		VERIFICATION PLAN
		542601		o PREPARE SEGMENT TEST
		542602		PLAN AND PROCEDURES
		342002		o SUPPORT THE EXECUTION AND EVALUATION OF TESTS
7.4	COMMUNICATIONS AND INTERFACE CONTROL	342500	4.2.5	o TRANSITION AND INTEGRATION PLANNING AND SUPPORT
		542500		o DEVELOP SEGMENT TRANSITION AND INTEGRATION PLAN
		542501		o SUPPORT FACILITY PLANNING, INSTAL- LATION AND CHECKOUT
		542502		o SUPPORT TRANSITION OF NEW CAPABILITY INTO THE OPERATIONAL ENVIRONMENT O PROVIDE INTERSEGMENT INTERFACE DEFINITION O ASSURE CONTROLLED INTERFACE DESIGN O PROVIDE FOR CONTROLLED INTRASEGMENT STANDARDS AND INTERFACES
0.0				and a same a same
8.0	SEGMENT DEVELOPMENT			
8.1	HARDWARE DEVELOPMENT	246000	4.6	
		346100 546100 546101	4.6.1	 HARDWARE DEVELOPMENT MANAGEMENT MANAGE ALL HARDWARE DEVELOPMENT SET AND MAINTAIN HARDWARE DESIGN, FABRICATION, TEST PRACTICES, STANDARDS AND CONVENTIONS

OBS				
REF	ORGANIZATIONAL ELEMENT	WBS #	SOW #	ASOCIATED TASK
		546102		o PROVIDE INPUTS TO THE SEGMENT
		346200	4.6.2	DEVELOPMENT PLAN O CI: BASIC WORK STATION
		546210	4.6.2.1	
		340210	4.0.2.1	o ACCOMPLISH PRELIMINARY CI DESIGN/ REQUIREMENTS ANALYSIS AND ALLOCATION
		546211		o PREPARE CI SPECIFICATIONS AND CON- DUCT INTERNAL DESIGN REVIEWS
		546212		o ACCOMPLSH PRELIMINARY DESIGN OF COMMERCIAL PRODUCT MODIFICATIONS
		446220	4.6.2.2	
		546220		o ACCOMPLISH DETAILED DESIGN OF CI
		546221		o PREPARE BUILD-TO COMPONENT SPECIFICATIONS
		546222		o CONDUCT INTERNAL DESIGN REVIEWS
		546223		o ACCOMPLISH CRITICAL DESIGN OF COM-
				MERCIAL PRODUCT MODIFICATION
		446230	4.6.2.3	
		546230		 ACCOMPLISH FABRICATION OF ALL MANUFACTURED HARDWARE
		546231	•	 ACCOMPLISH MODIFICATION OF ALL COMMERCIAL PRODUCTS
		546232		o PREPARE AS-BUILT COMPONENT SPECIFICATIONS
		446240	4.6.2.4	
		546240		o PREPARE HARDWARE TEST PROCEDURES
		546241		o TEST HARDWARE AT COMPONENT AND CI LEVELS
		546242		o SUPPORT AND TEST VERIFICATION
		446250	4.6.2.5	o DOCUMENTATION
		546250		o PREPARE EQUIPMENT OPERATION AND MAINTENANCE MANUALS
		546251		o PREPARE INPUTS TO SEGMENT/SYSTEM OPERATIONS AND USER MANUALS
		546252		o PREPARE INPUTS TO TRAINING MANUALS
8.2	SOFTWARE DEVELOPMENT	243000	4.3	· ·
		343100	4.3.1	o SOFTWARE DEVELOPMENT MANAGEMENT
	9.	543100		o MANAGE ALL SOFTWARE DEVELOPMENT
				ACTIVITIES
		543101		o PROVIDE/ENFORCE PROGRAM DESIGN,
				CODING AND TEST PRACTICES,
0 0 1	CODELLAND			STANDARDS AND CONVENTIONS
8.2.1	SOFTWARE ENGINEERING	543102		o SOFTWARE ENGINEERING/ARCHITECTURE
8.2.2	SOFTWARE CONTROL	543103		o SOFTWARE CONTROL
		543104		o PROVIDE INPUT TO SEGMENT DEVELOP- MENT PLAN
		543105		o IMPLEMENT DATA BASE

OBS REF	ORGANIZATIONAL ELEMENT	WBS #	SOW #	ASOCIATED TASK
8.2.3	CPCI DEVELOPMENT	343200 443210	4.3.2.1	o PRELIMINARY DESIGN
		543210		o PREPARE PRELIMINARY DESIGN SPECIFICATIONS
		443220 543220	4.3.2.2	o CRITICAL DESIGN
		343220		o PREPARE BUILD-TO DESIGN SPECIFICATIONS
8.2.3	CPCI DEVELOPMENT (CONTINUED)	443230 543230		
	,	443240		o DEVELOP CPCs, CODE AND DEBUG o TEST
		543240	4.5.2.4	o TEST AND PREPARE REPORTS
		443250	4.3.2.5	o DOCUMENTATION
		543250		o PREPARE AS-BUILT DOCUMENTATION
8.3	DEVELOPMENT AND TEST LABORATORY	241600	4.16	
		341610	4.16.1	MANAGEMENT
		541610		 PROVIDE MANAGEMENT, PLANNING AND CONTROL OF FACILITIES
		541620		AND TEST LABORATORY
		541630		THE DEVELOPMENT AND TEST LABORATORY
		541640	4.16.4	 OPERATE AND MAINTAIN THE DEVELOPMENT AND TEST LABORATORY
9.0	INTEGRATION, TEST AND TRANSITION			
		241000	4.10	o TEST AND VERIFICATION
0 1		541000	4.10.1	o PROVIDE MANAGEMENT OF SEGMENT TEST ACTIVITIES
9.1	TRAINING	241700		
		541700	4.17.1	o PROVIDE MANAGEMENT OF TRAINING ACTIVITIES
		541720	4.17.2	o PROVIDE SEGMENT TRAINING PLAN o PREPARE USER TRAINING MATERIALS o TRAIN USERS AND GOVERNMENT INSTRUCTORS
		541730	4.17.3	o PREPARE OPERATOR TRAINING MATERIALS o TRAIN SEGMENT AND SYSTEM OPERATORS AND MANAGEMENT PERSONNEL
		541740	4.17.4	o PREPARE AND DELIVER MAINTENANCE TRAINING MATERIALS
9.2	TRANSITION PLANNING			o TRAIN SEGMENT MAINTENANCE PERSONNEL
	TIGHTITON LEWINING	541000	4.10.1	o PREPARE TEST PLANS

OBS REF	ORGANIZATIONAL ELEMENT	IDC #	50.T. //	
TOTAL .	ORGANIZATIONAL ELEMENT	WBS #	SOW #	ASOCIATED TASK
				o PREPARE TEST PROCEDURES
		541020	4.10.2	o PROVIDE NECESSARY SOFTWARE TO SUP-
				PORT INTEGRATED TESTING
9.3	INTEGRATION AND TEST			
		241300	4.13	o INSTALLATION, CHECKOUT AND TEST
		541310	4.13.1	 PROVIDE MANAGEMENT OF INSTALLATION, CHECKOUT AND TEST
9.3	INTEGRATION AND TEST (CONTINUED)	541320	4.13.2	o PROVIDE FACILITY INTERFACE REQUIREMENTS
		541330	4.13.3	PROVIDE FACILITY PLANNINGPREPARE SEGMENT SHIPPING PLAN
		341330	4.13.3	o PREPARE SEGMENT INSTALLATION PLAN
				o PROVIDE FOR SHIPMENT OF ALL ITEMS
				o ACCOMPLISH SEGMENT INTEGRATION AND
				TRANSITION TO OPERATIONAL STATUS
		541340	4.13.4	DILL BEOLENI ILDI
				o PROVIDE SITE SEGMENT TEST REPORT
		541350	4.13.5	
9.4	OPERATIONS & MAINTENANCE	541360	4.13.6	o SUPPORT PROGRAM DEMOS
J. 7	OTERATIONS & HAINTENANCE	241800	4.18	
		541810	4.18.1	o PROVIDE O&M MANAGEMENT
		541811	4.10.1	o PROVIDE O&M PROJECT CONTROL
		541812	4.18.2	o PROVIDE SPARING OF SEGMENT EQUIP-
				MENT AND EXPENDABLES
		341830	4.18.3	o SOFTWARE MAINTENANCE
		541830		o PROVIDE SYSTEMS ENGINEERING
		541831		o PROVIDE SOFTWARE MANAGEMENT
		541832		o PROVIDE ANALYSIS, ERROR CORRECTION
		5/1000		AND UPDATE DOCUMENTATION
		541833		o TEST SOFTWARE CHANGES
		541834		 MAINTAIN COMMERCIAL SOFTWARE PRODUCTS
		341840	4 18 4	o HARDWARE MAINTENANCE
		541840	7.1014	o PROVIDE ANALYSIS, ERROR CORRECTION
				AND UPDATE DOCUMENTATION
		541841		o MAINTAIN COMMERCIAL HARDWARE
		341850	4.18.5	o CONFIGURATION CONTROL
		541850		o SUPPORT CONFIGURATION CONTROL FOR
		2/10/0	/ 10 -	OPERATIONAL SOFTWARE AND HARDWARE
		341860	4.18.6	 PROVIDE ADMINISTRATIVE SUPPORT AND DOCUMENT CONTROL

APPENDIX C5

MASTER SCHEDULE

Basic proposal schedules are unchanged from February 24, 1982 submittal. Figures 1-6, which follow, provide schedules for the options.

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3) Set (1014, 350-647) 3) Intrinse, CRESION REVIEW 4) MAY (1014, 1014, 1014) 5) Intrinse, CRESION REVIEW 5) INTRINSE, DESIGN REVIEW 1) INTRINSE, DESIGN REVIEW 2) STORES REVIEW 2) STORES REVIEW 2) INTRINSE, DESIGN REVIEW 3) INTRINSE, DESIGN REVIEW 3) INTRINSE, DESIGN REVIEW 3) INTRINSE, DESIGN REVIEW 4) INTRINSE, DESI	BOC) MILESTONES		1						
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1 PORT	2) SBR (TOTAL SEGMENT)			1					i
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2) INTERNAL DESIGN REVIEW 3) DOT 3) TOT 4) INTERNAL DESIGN REVIEW 5) PORT 6) PORT 7) ROBE 8) SCOPHIT INTEGRATION TESTING 9) PACTORY ACCOPTANCE TESTING 10 TOTAL TO	I) POR TOC UPDATE								1
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8) SEGENT INTEGRATION TESTING 9) FACTORY ACCEPTANCE TESTING 2/1,3/1	6) FOT	i	1		A6/1	A12	1	1	1
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3/1	8) SEGMENT INTEGRATION TESTING		1	1	A 0/1		_		1
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Figure 1. Option A Master Schedule (Sheet 1 of 2)

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	AMJJASOND	J F H A H J J A S O H O	JFHAHJJASOHO	J F M A N J J A S O N D		87
PIC SYSTEM MILESTONES			INTERPROGRAM 1/F CHANGES BOC		J F M A M J J A S O M (DIFHAHJJASO
THE STREET MILESTONES			4/84 5/84 10/84	10C 7/85		≜ Foc
E MILESTONES (CONT.)						7/87
111 ENSTALL 478 BASIC A/R			A10/15	A//15		
12) H/W ADPE INSTALL & C/D TEST				3/1 4/1		1
13) S/W INSTALL & C/D TEST				2/1 (/)		1
14) SITE SEGMENT TEST				4/1, 45/19		1
15) SEGMENT ACCEPTANCE				S/15		1
16) SITE INTER SEGMENT DEMOS				<u>√</u> 5/1 √6/15		1
17) SITE INTER PROGRAM DENDS				<u>6/1</u> _2/15		1
183 IOC FRAINING				3/15, 4/3 6/1 7/15		t
19) SEGMENT LOC				A5/15		1
20) SYSTEM DOC						1
31) (OC O E H				1/15	4/30	1
OC MILESTONES						<u> </u>
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4) INTERNAL DESIGN REVIEW	1					1
5) PQT					<i>D</i> 1	
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12) SITE SEGMENT TEST		i				5/1 6/15
13) SEGMENT ACCEPTANCE	1	1				6/15
14) SITE INTER SEGMENT DEMOS				i		5/15 47/1
153 SITE ENTER PROGRAM DEMOS	1	I				6/15 7/15
161 FOC TRAINING	1	1	1	i		3/15 1/15 5/15 7/15
17) SEGMENT FOC		1	I	I		6/15
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191 FOC 0 A H					▲ 10/1 .	THROUGH 7/88
FIELD						
TE 1. THIS INVOLVES UPGRADING 140 BAS TO EMARKED INS AND UPGRADING 2 TO FULL CAPABILITY INS.						_

Figure 1. Option A Master Schedule (Sheet 2 of 2)

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	AMJJASOMB	J F H A H J J A S O H	DJFWAWJJASDN	DJFHAHJJASDH	D J F H A M J J A S G N D	97
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II CONTRACT START	A4/30					
2) SBR (TOTAL SEGMENT)	A7/1			1		
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5) INTERNAL DESIGN REVIEW		12/15	1		1	
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7) INTERNAL DESIGN REVIEW		45/I 44/I 10/I			ł	
8) PQT	1		.1			ļ.
9) FQ7		<u> 401 </u>	'	1	1	i
0) INS A/N INTEGRATION FESTING		9/1	- A ^{1/1}			l
1) SEGMENT INTEGRATION TESTING		A10/4	∆ 12/1	í	i	
2) FACTORY ACCEPTANCE TESTING	1 :	12/1	A A ^(/)			
3) Skip]		AIZI	1		
4) INSTALL 278 BASIC A/R]	A**	/I [™] 3/I	1	1	
SE HAR ADPE INSTALL & CAD TEST	1 1	_	141 2/1	1	1	
6) S/N INSTALL & C/O TEST	, ,		2/1 3/1	· F		
7) SITE SEGMENT TEST			3/1 ,5/15	1	1	
6) SEGMENT ACCEPTANCE			A3/19	[i	
9) SITE INTER SEGRENT OFFICE			A ^{11/1} A ^{9/1}		1	
OF SITE INTER PROGRAM DEMOS			4/1 . 10/1	fa., a.,	1	
1) BOC TRAINING		1941		2/1 <u>A_A</u> 3/1	l i	
			A 1/1 A 3/1 A 5/1	ı	i I	
21 INTERFACE OPERATIONAL	1		A ^{5/15}		1 1	
3) SEGHENT BOC			₫5/15			
4) SYSTEM BOC			A10/19	· [1	
4) BOC 0 & M	1		10/15	1/15	1 (
MILESTONES				_	1	
MILES (UK.)					<u> </u>	
I POR JOC UPDATE		4/1.5/1				
I INTERNAL DESIGN REVIEW		46/1	1	1		
) CDR		7/1	11/1	1		
) INTERNAL DESIGN REVIEW	1		T 42/15	1		
) PGI			4/1 10/1	1	1	
) FQI	ŀ			ا س	1	
(NONE)			A	วี'	1	
			1	1	1	
SI SEGMENT INTEGRATION VESTING	i		40/1	A ^{2/1}	1	
FACTORY ACCEPTANCE TESTING				<u>a2/1,</u> 3/1	1	
1 947			I	A ^{3/1}	1	

Figure 2. Option B Master Schedule (Sheet 1 of 2)

1	82	63	84	es · · · ·		
	ANJJASOND	J F N A H J J A S O H O	J F M A M J J A S O M D	J F M A M J J A S O H O	15 M 4 M 1 1 4 5 0 M 5	87
MPEC SYSTEM MILESTONES			INTERPROCRAM 1/F CHARGES BOC BEND A A 1/84 5/84 10/84	▲ loc		J F H A H J J A S
OC HILESTONES (CONT.)			10/24	7/85		7/87
S (I) (NOME)						
\$ 12) (MONE)					İ	
\$ 13) S/N INSTALL I C/O YEST				3/1, 4/1		İ
S IN) SITE SEGMENT TEST				4/1, ,5/15	i	1
S 15) SEGMENT ACCEPTANCE				3/15		
S 161 SITE INTER SEGMENT DENOS				<u> 45</u> 71 <u>4</u> 6715	ļ.	
\$ 171 SITE INTER PROGRAM DENDS				46/1 A7/15		
S 181 IOC TRAINING	İ			3/15_4/1 6/1 7/15	l	l
S 19) SEGMENT LOC				A5/15	1	
5 20) SYSTEM LOC				A ^{7/15}		l
\$ 21) TOC O E M				A ^{7/13}	9/30	
FOC MILESTONES						
F 1) PDR FOC LIPDATE				4/1_49/1		
8) INTERNAL DESIGN REVIEW				A-A' A6/1		l
1) cos				₹7/1 <u>10/1</u>		l .
4) INTERNAL DESIGN REVIEW	i			· · · ·	 	
5) PQT				•	4/1 49/1	
6) FQT			i		6/1 10/1	
71 SEGMENT INTEGRATION TESTING	i				.8/1	,2/1
B) FACTORY ACCEPTANCE TESTING					A	2/1 2/1
TI SHOP			ì			A3/I
10) INSTALL 82 BASIC, 140 EMMANCED, 8 500 FULL CAPABILITY INS 11) INSTALL 8 C/O TEST						3/1 3/15 3/1 5/1
12) SITE SEGMENT TEST						5/1_6/15
13) SEGMENT ACCEPTANCE		i				6/15
14) SITE INTER SEGMENT DEMOS						5/15 47/1
15) SITE INTER PROGRAM DEMOS	ļ					8/15 7/15
16) FOC TRAINING	i	i				3/15, 4/15, 5/15, 7/15
17) SEGMENT FOC						6/15
16) SYSTEM FOC				j		A7/15
19) FQC D 4 N	į.		i		_10/1	THROUGH 7/88

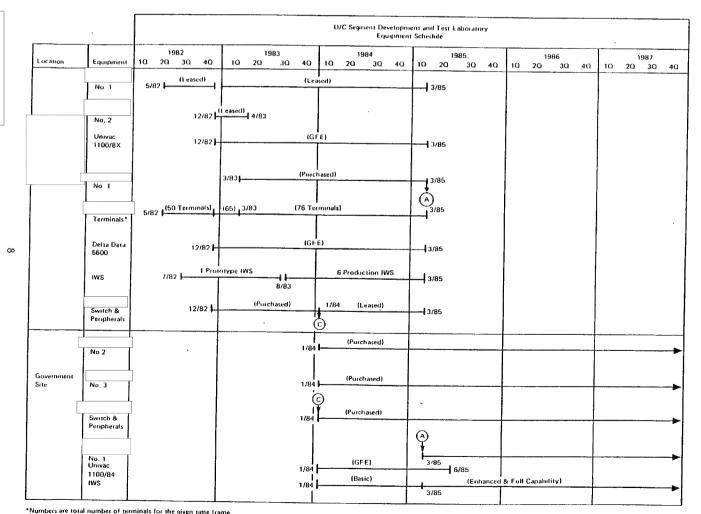
Figure 2. Option B Master Schedule (Sheet 2 of 2)

		63	64	65	86	67
	ANJJASOND	J F M A N J J A S O N D	JFHAHJJASCHE	J F H A H J J A S O H O	J F M A M J J A S D M E	J F H A H J J A S O .
PEC SYSTEM MILESTONES		•	INTERPROGRAM 1/F CHARGES BOC DEHO & & 10/04	A ^{toc}		Foc
BOC) MILESTONES			1707 2701	7/83		7/87
1) CONTRACT START 2) SER (TOTAL SEGMENT) 3) INTERNAL OSSIGN REVIEW 4) POR (TOTAL SEGMENT) 3) INTERNAL OSSIGN REVIEW 4) POR (TOTAL SEGMENT) 3) INTERNAL DESIGN REVIEW 6) COR 7) INTERNAL DESIGN REVIEW 6) POR 7) POR 10) INSERT INTERNATION RESTING 12) PATORY ACCEPTANCE TESTING 12) PATORY ACCEPTANCE TESTING 13) SIGN STALL 270 BASIC AVM 13) MAY ADPT INSTALL & C/O TEST 14) SEGMENT ACCEPTANCE 19) SITE SEGMENT DENSIS 20) SITE INTERNAL & C/O TEST 19) SITE SEGMENT DENSIS 20) SITE INTERNAL DENSIS 21) SITE INTERNAL DENSIS 22) INTERNAL OPPRANTONAL 22) INTERNAL OPPRANTONAL 23) SEGMENT ORD 3) SEGMENT ORD 3) SEGMENT ORD 3) SEGMENT ORD 3) SEGMENT ORD 3) SEGMENT ORD 3) SEGMENT ORD 3) SEGMENT ORD 3) SEGMENT ORD 3) SEGMENT ORD 3) SEGMENT ORD 3) SEGMENT ORD 3) SEGMENT ORD 3) SEGMENT ORD 3) SEGMENT ORD 3) SEGMENT ORD 4) SEGMENT ORD 4) SEGMENT ORD 4) SEGMENT ORD 4) SEGMENT ORD 4) SEGMENT ORD 4) SEGMENT ORD 4) SEGMENT ORD 5) SEGMENT ORD 6) SEGMENT ORD 6) SEGMENT ORD 6) SEGMENT ORD 7		471 4071 4071 4071 1071 1071 1071 1071 1	(1_avi 21_3vi5 xvi5 xvi5 	2∕1 _{8\$} 1/1 _{\$} 1/15		
8) ENTERNAL DESIGN REVIEW		1/1	A ^{2/1}			
3) COM 4) INTERNAL DESIGN MEYIEN 3) POT			42/1 42/1 42/12 410/12			
6) FQT 7) MONE			A ^{10/1}	1/1		
01 SEGMENT INTEGRATION TESTING 9) FACTORY ACCEPTANCE TESTING 10) SHIP			12/15 <u>.</u> 2	A ^{2/1} A ^{3/1}		\$

Figure 3. Option C Master Schedule (Sheet 1 of 2)

	62	63	64	85		47
	ANJJASOND	J F H A H J J A S O H D	J F H A H J J A S O H D	J F M A M J J A S D H D	J F K A H J J A S O H D	J F H A H J J A S Q I
IPIC SYSTEM MILESTONES			INTERPROGRAM 1/F CHANGES BCC DEMO & & BCC BCC BCC BCC BCC BCC BCC BCC BCC	≜ ^{10C} 7/85		≜ F0C 7/87
10C) MILESTONES (CON1.)						
III (HOME)					· · · · · · · · · · · · · · · · · · ·	
12) (HOME)			l			
(3) S/H (HSTALL & E/O TEST				3/1 <u>4</u> /1		
143 SITE SEGMENT TEST			1	A4/1 A5/15		1
15) SEGMENT ACCEPTANCE			ľ	A ^{5/15}		
(6) SITE ENTER SEGMENT DEMOS			i	45/1 A6/15		
173 SITE INTER PROGRAM DEMOS			1	<u>46/1</u> 47/15		
IN) FOC TRACKING			1	3/15_A*// _6/1_7/15		
193 SEGMENT LOC				A ^{5/15}		
20) SYSTEM EDL		1	J	▲ ^{7/15}		
213 TOC 0 & M			i .	7/15	49/30	
OC MILESTONES						
			l			
13 POR FOC UPDATE				4/1 <u></u> 5/1		
2) INTERNAL DESIGN REVIEW				A ^{6/1}		
n os				<u> 4^{7/1} </u>		
40 INTERNAL DESIGN REVIEN					Σ·I	
5) PQT					A ^{4/1} A ^{9/1}	
6) FQT					46/1	
7) SEGMENT ENTEGRATION TESTING					<u> 40/1</u>	A2/1
8) FACTORY ACCEPTANCE TESTING						2/14_43/1
9) SHIP						≜ 3/1
(0) INSTALL 62 BASIC, 140 EMMANCED. 8 500 FULL CAPABILITY INS						A ^{3/1} A ^{7/15}
III) INSTALL & C/O TEST			!			A ^{3/1} A ^{5/1}
12) SITE SEGMENT TEST						3/14_46/15
13) SEGNENT ACCEPTANCE						A6/15
14) SITE INTER SEGMENT DEMOS				!		5/15 2/1
IS) SITE INTER PROGRAM DEMOS					i	6/15 7/15 3/15 4/15 5/15 7/15
16) FOC TRAINING						3/15_4/15_5/15_7/15 _6/15
17) SEGMENT FOC				l		A ^{07/15}
(8) SYSTEM FOC			1	1	.10/1	THROUGH 7/68
193 FOC D 4 H				ı	A	
			1 3			

Figure 3. Option C Master Schedule (Sheet 2 of 2)



^{*}Numbers are total number of terminals for the given time frame.

Figure 4. Equipment Phasing at Contractor's Facility and Government Facility

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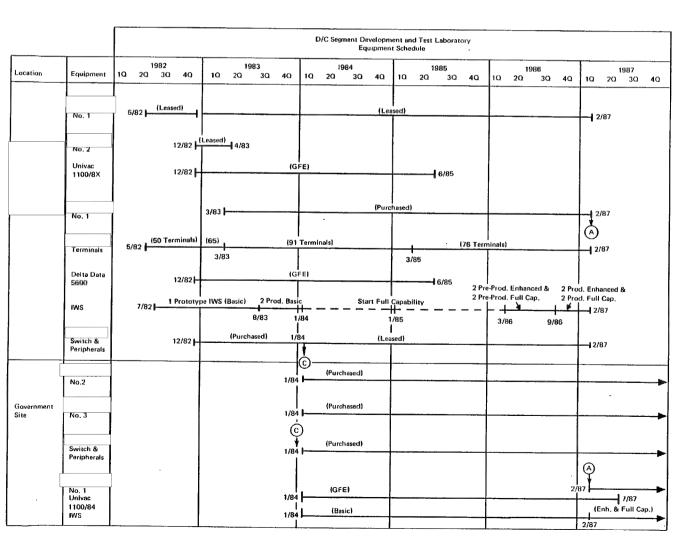
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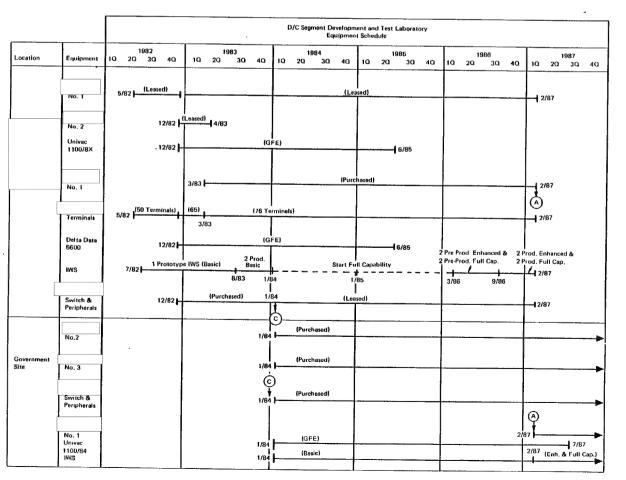
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Figure 5. Equipment Phasing at Contractor's and Government Facilities Option B



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Figure 6. Equipment Phasing at Contractor's and Government Facilities ${\tt Option}\ {\tt C}$

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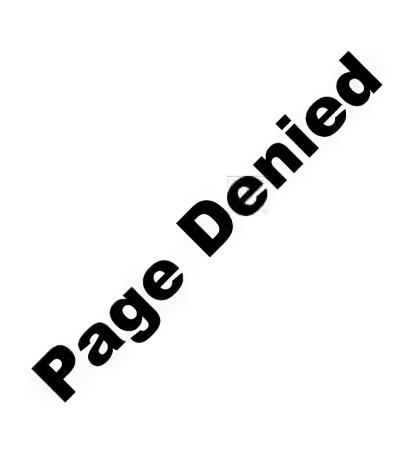
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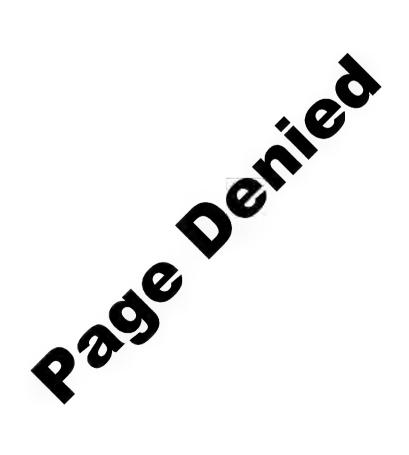
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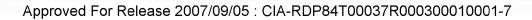
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INTEGRATED WORK STATION PRICE



APPENDIX C11

ADPE PROCUREMENT OPTIONS

1.0 Introduction

This section presents a comparative analysis of three ADPE procurement options, namely:

o Baseline Procurement Option (BPO)

Previously(February proposal) referred to as the "Recommended Procurement Option", this option involves the outright purchase of all ADPE destined for delivery to the Government's site. While this procurement option has the lowest overall cost, it requires significantly more dollar outlay in the first three program years.

o Alternate Payment Plan (APP)

Where, the hardware items being purchased are the same as for the BPO above, but the schedule for payment by the Government is agreed to under the terms, conditions and provisions of the contract.

o Lease Procurement Option (LPO)

Where, all ADPE procurements are leased at rates equivalent to those offered under the GSA ADP Contract. While this procurement option has the highest overall cost, it requires significantly less dollar outlay in the first three program years.

1.2 Criteria For The Optimal Procurement Approach

Efforts toward development of alternative approaches to ADPE procurement have been guided by three criteria:

- 1. That the approach yield the least overall program cost.
- 2. That the approach present an attractive affordability profile especially over the early years of the program.
- 3. That the approach taken to attain 1 and 2 in no way increase risk attendant to the performance of the program.

2.0 ADPE Cost By Procurement Option

Figure 1-1 summarizes the procurement options by categories of Purchase/Lease, Hardware Maintenance, and Software (License and Support) across hardware groups B, C, D, E, G, I, J and K. Price adjustments, as applicable, are shown for the following hardware group combinations:

	<u>Applicable</u>	to Procurement	Option	
Hardware Group	Baseline	APP	Lease	
B&C	Yes	Yes	No	
D&E&G	Yes	Yes	No	
I&J	Yes	Yes	No	
K	Yes	Yes	No	

Interest accruals engendered by the APP options are shown as "Cost Deltas".

The option total for each of the procurement options in Figure 1-1 shows the Baseline option to be the overall cost followed by the APP option (14% more costly). The Lease Option is 40% and 30% more costly than the Baseline and APP options, respectively. On the basis of the above stated criteria to develop and present the most cost effective procurement approach, the Lease option is disqualified as a viable alternative. Baseline and APP options thus remain as the procurement options of choice and are further compared below.

Figures 1-2 and 1-3 present cost by hardware group across fiscal years of the program for the Baseline and APP options, respectively. In terms of the above stated criteria to "present an attractive affordability profile especially over the early years of the program", attention is directed to the TOTAL and PERCENT OF TOTAL columns. Clearly, the APP option presents the most attractive affordability profile over the early years of the program.

1 Lease	pricing	is	included	here	as	a	ROM	comparison	to	Baseline	and	APF
Option	ns and do	oes	not repre	esent	a c	cor	nmito	nent				

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